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L1	3847	(341/118,119,120,121,133,134,135,136,144,145,146,147,148,149,150,151,152,153,154).CCLS	USPAT	OR	OFF	2005/02/28 10:36
L2	634	(327/80,434,436).CCLS.	USPAT	OR	OFF	2005/02/28 10:47
L3	1	trip resistor temperature digital	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2005/02/28 10:51
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**1 Application benefits of single-phase digitally controlled vacuum reclosers**

*Gadbury, J.E.;*

Transmission and Distribution Conference, 1994., Proceedings of the 1994 IEEE Power Engineering Society, 10-15 April 1994  
Pages:646 - 651

[Abstract] [\[PDF Full-Text \(528 KB\)\]](#) **IEEE CNF**

**2 Protection of AC motors by means of microcontrollers**

*Cunkas, M.; Akkaya, R.; Ozturk, A.;*

Electrotechnical Conference, 2000. MELECON 2000. 10th Mediterranean, Vol. 3, 29-31 May 2000  
Pages:1093 - 1096 vol.3

[Abstract] [\[PDF Full-Text \(348 KB\)\]](#) **IEEE CNF**

**3 A thermal monitoring and parameter tuning scheme for induction machines**

*Hurst, K.D.; Habetler, T.G.;*

Industry Applications Conference, 1997. Thirty-Second IAS Annual Meeting, I/97., Conference Record of the 1997 IEEE, Volume: 1, 5-9 Oct. 1997  
Pages:136 - 142 vol.1

[Abstract] [\[PDF Full-Text \(608 KB\)\]](#) **IEEE CNF**

**4 The Inverted Echo Sounder**

*Bitterman, D.; Watts, D.;*

OCEANS, Volume: 11, Sep 1979

Pages:302 - 306

[\[Abstract\]](#) [\[PDF Full-Text \(336 KB\)\]](#) [IEEE CNF](#)

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**5 Low-skew clock generator with dynamic impedance and delay match**  
*Balatsos, A.; Lewis, D.;*

Solid-State Circuits Conference, 1999. Digest of Technical Papers. ISSCC. 199  
IEEE International , 15-17 Feb. 1999

Pages:182 - 183

[\[Abstract\]](#) [\[PDF Full-Text \(232 KB\)\]](#) [IEEE CNF](#)

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Relevance scale

**1** [Measurement tools: Robust synchronization of software clocks across the internet](#)

Darryl Veitch, Satish Babu, Attila Pásztor  
October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**

Full text available: [pdf\(1.59 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Accurate, reliable timestamping which is also convenient and inexpensive is needed in many important areas including real-time network applications and network measurement. Recently the TSC register, which counts CPU cycles in popular PC architectures, was proposed as the basis of a new software clock which in terms of rate performance performs as well as more expensive GPS alternatives. Smooth and precise clock rate is essential to measure time *<math>\Delta t</math>* differences accurately. We show ...

**Keywords:** GPS, NTP, network measurement, round-trip time, software clock, synchronization, timing

**2** [Analog design: A 1.8V supply multi-frequency digitally trimmable on-chip IC oscillator with low-voltage detection capability](#)

A. L. Vilas Boas, J. B. D. Soldera, A. Olmos  
September 2004 **Proceedings of the 17th symposium on Integrated circuits and system design**

Full text available: [pdf\(454.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The design of a 1.8V power supply, multi-frequency on-chip IC oscillator with a built-in low voltage detection (LVD) circuitry is described. Since the modules share the same bandgap cell, the system includes a new bandgap isolation strategy based on wide swing cascode current mirrors to reduce noise coupling into the LVD. The IC oscillator generates four selectable clock frequencies: 4MHz and 8MHz from 1.8V to 5.5V, 12MHz and 22MHz from 2.7V to 5.5V. After fine-tuning the oscillator via digital ...

**Keywords:** bandgap, low-voltage detector, oscillator, relaxation, trimming

**3** [The information furnace: consolidated home control](#)

Diomidis D. Spinellis  
May 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 1

Full text available: [pdf\(488.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Information Furnace is a basement-installed PC-type device that integrates existing consumer home-control, infotainment, security and communication technologies to transparently provide accessible and value-added services. A modern home contains a large number of sophisticated devices and technologies. Access to these devices is currently provided through a wide variety of disparate interfaces. As a result, end users face a bewildering array of confusing user-interfaces, access modes a ...

**Keywords:** Automation, Consumer electronics, Home-control, Multi-modal interfaces

4 Wireless Coyote: a computer-supported field trip



Wayne C. Grant

May 1993 **Communications of the ACM**, Volume 36 Issue 5

Full text available: [pdf\(3.08 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#), [review](#)

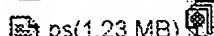
5 A framework for dynamic energy efficiency and temperature management



Michael Huang, Jose Renau, Seung-Moon Yoo, Josep Torrellas

December 2000 **Proceedings of the 33rd annual ACM/IEEE international symposium on Microarchitecture**

Full text available: [pdf\(194.74 KB\)](#)



Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

[Publisher Site](#)

6 From turtles to Tangible Programming Bricks: explorations in physical language design



Timothy S. McNeerney

September 2004 **Personal and Ubiquitous Computing**, Volume 8 Issue 5

Full text available: [pdf\(703.54 KB\)](#) Additional Information: [full citation](#), [abstract](#)

This article provides a historical overview of educational computing research at MIT from the mid-1960s to the present day, focusing on physical interfaces. It discusses some of the results of this research: electronic toys that help children develop advanced modes of thinking through free-form play. In this historical context, the article then describes and discusses the author's own research into *tangible programming*, culminating in the development of the *Tangible Programming B* ...

**Keywords:** Children, Construction toys, Education, Hands-on learning, History of computing, Microworlds, Programming languages, Tangible user interfaces

7 Local networks



William Stallings

March 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 1

Full text available: [pdf\(3.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The rapidly evolving field of local network technology has produced a steady stream of local network products in recent years. The IEEE 802 standards that are now taking shape, because of their complexity, do little to narrow the range of alternative technical approaches and at the same time encourage more vendors into the field. The purpose of this paper is to present a systematic, organized overview of the alternative architectures for and design approaches to local networks.

8 Software safety: why, what, and how

Nancy G. Leveson

June 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 2Full text available: [pdf\(4.16 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Software safety issues become important when computers are used to control real-time, safety-critical processes. This survey attempts to explain why there is a problem, what the problem is, and what is known about how to solve it. Since this is a relatively new software research area, emphasis is placed on delineating the outstanding issues and research topics.

9 The EPAC architecture: an expert cell approach to field programmable analog devices

Hans W. Klein

February 1996 **Proceedings of the 1996 ACM fourth international symposium on Field-programmable gate arrays**Full text available: [pdf\(73.48 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)10 The challenge of "customerization" in financial services

Yoram (Jerry) Wind

June 2001 **Communications of the ACM**, Volume 44 Issue 6Full text available: [pdf\(93.93 KB\)](#) [html\(31.71 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)11 Concurrent design patterns for resource sharing

Bo I. Sandén

November 1997 **Proceedings of the conference on TRI-Ada '97**Full text available: [pdf\(1.42 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)12 Mobility & wireless access: Sensor-enhanced mobile web clients: an XForms approach

John Barton, Tim Kindberg, Hui Dai, Nissanka B. Priyantha, Fahd Al-bin-ali

May 2003 **Proceedings of the twelfth international conference on World Wide Web**Full text available: [pdf\(485.90 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes methods for service selection and service access for mobile, sensor-enhanced web clients such as wireless cameras or wireless PDAs with sensor devices attached. The clients announce their data-creating capabilities in "Produce" headers sent to servers; servers respond with forms that match these capabilities. Clients fill in these forms with sensor data as well as text or file data. The resultant system enables clients to access dynamically discovered services spontaneously, ...

**Keywords:** MIME types, browsers, forms, mobile computing, sensors, ubiquitous computing

13 Pen computing: a technology overview and a vision

André Meyer

July 1995

**ACM SIGCHI Bulletin**, Volume 27 Issue 3Full text available:  pdf(5.14 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

**14 Poster Session: Poster abstract: wireless sensor network characterization - application to demand response energy pricing** 

Nathan Ota, Dan Hooks, Paul Wright, David Auslander, Therese Peffer

November 2003 **Proceedings of the 1st international conference on Embedded networked sensor systems**

Full text available:  pdf(120.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This poster presents latency and reliability characterization of wireless sensor network as applied to an advanced building control system for demand response energy pricing. A test network provided the infrastructure to extract round trip time and packet failure data. Latency was below the predicted 75 milliseconds per hop. Packet failure rates increased with network depth and in some locations exceeded 75 percent failure rates. Both latency and packet failure rates exhibited non-linear changes ...

**Keywords:** advanced building control, demand response energy pricing

**15 An application-oriented error control scheme for high-speed networks** 

Fengmin Gong, Gurudatta M. Parulkar

October 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 5

Full text available:  pdf(1.83 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**16 Micro-option: a method for optimal selection and atomic reservation of distributed resources in a free market environment** 

Roman Ginis, K. Mani Chandy

October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce**

Full text available:  pdf(371.59 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** automatic resource management, distributed transactions, electronic commerce transactions, financial derivatives

**17 SPINS: security protocols for sensor networks** 

Adrian Perrig, Robert Szewczyk, J. D. Tygar, Victor Wen, David E. Culler

September 2002 **Wireless Networks**, Volume 8 Issue 5

Full text available:  pdf(213.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless sensor networks will be widely deployed in the near future. While much research has focused on making these networks feasible and useful, security has received little attention. We present a suite of security protocols optimized for sensor networks: SPINS. SPINS has two secure building blocks: SNEP and  $\mu$ TESLA. SNEP includes: data

confidentiality, two-party data authentication, and evidence of data freshness.  $\mu$ TESLA provides authenticated broadcast for severely resource-constrained ...

**Keywords:** MANET, authentication of wireless communication, cryptography, mobile ad hoc networks, secrecy and confidentiality, secure communication protocols, sensor networks

**18** [GADGET: a toolkit for optimization-based approaches to interface and display generation](#) 

James Fogarty, Scott E. Hudson

November 2003 **Proceedings of the 16th annual ACM symposium on User interface software and technology**

Full text available:  [pdf\(823.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recent work is beginning to reveal the potential of numerical optimization as an approach to generating interfaces and displays. Optimization-based approaches can often allow a mix of independent goals and constraints to be blended in ways that would be difficult to describe algorithmically. While optimization-based techniques appear to offer several potential advantages, further research in this area is hampered by the lack of appropriate tools. This paper presents GADGET, an experimental toolkit ...

**Keywords:** display generation, layout algorithms, numerical optimization, perceptually optimized displays, toolkits

**19** [George Forsythe and the development of computer science](#) 

Donald E. Knuth

August 1972 **Communications of the ACM**, Volume 15 Issue 8

Full text available:  [pdf\(836.47 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)

**20** [The impact of technological advances on programmable controller s\(tutorial session\)](#) 

Robert P. Collins, William J. Ketelhut

June 1985 **Proceedings of the 22nd ACM/IEEE conference on Design automation**

Full text available:  [pdf\(547.93 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

An input/output system of intelligent, programmable, solid-state power I/O modules inherently distributed to the point of control through integrated serial communications has been developed to provide a stand-alone, user-configurable I/O module. Design of this special I/O product was driven by the demand for greater diagnostics capability and lower installed costs required by programmable controller users. The product development, involving a new 5,500 gate equivalent VLSI chip and a smart ...

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